CLAIMS

- 1 48. (Canceled)
- 49. (Currently Amended) A method for treating a chemically sensitive individual having an irregular cell cycle for T lymphocytes, the method comprising the steps of:
 - (a) collecting a blood sample from the individual;
 - (b) determining an initial status of the cell cycle for T lymphocytes;
 - (c) (b) isolating mixed T and B lymphocytes from the blood sample;
 - (d) (e) propagating the isolated mixed T and B lymphocytes to obtain propagated lymphocytes;
 - (e) (d) lysing the propagated lymphocytes to obtain a lysate; and
 - (f) (e) administering the lysate to the individual.
- 50. (Previously Presented) The method according to Claim 49, wherein the step of collecting a blood sample further comprises the step of: collecting the blood sample from the individual by venipuncture in heparinized tubes.
- 51. (Previously Amended) The method according to Claim 49, wherein the step of isolating mixed T and B lymphocytes from the blood sample further comprises the steps of: separating the erythrocytes and neutrophils from the lymphocytes of the blood sample by a sodium diatrizoate and polysucrose density gradient technique to obtain a lymphocytic sample; centrifuging the lymphocytic sample; separating and combining the lymphocytic layers from the centrifuged lymphocytic sample; and washing the combined lymphocytic layers to obtain the isolated mixed T and B lymphocytes.
- 52. (Previously Presented) The method according to Claim 49, wherein the step of propagating the isolated mixed T and B lymphocytes further comprises the steps of: culturing the isolated mixed T and B lymphocytes with a cell growth medium at about 37°C.
- 53. (Previously Presented) The method according to Claim 52, wherein the cell growth medium is supplemented with bovine calf serum.

- 54. (Previously Presented) The method according to Claim 52, wherein the step of propagating the lymphocytes further comprises the steps of: centrifuging the cultured lymphocytes; removing the supernate from the centrifuged lymphocytes; and washing the centrifuged lymphocytes in normal saline with further centrifugation to obtain the propagated lymphocytes.
- 55. (Previously Presented) The method according to Claim 49, wherein the step of lysing the propagated lymphocytes further comprises the steps of: suspending the propagated lymphocytes in normal saline solution; sonicating the suspended lymphocytes; and filtering the sonicated lymphocytes to obtain the lysate.
- 56. (Previously Presented) The method according to Claim 49, wherein the step of administering the lysate to the individual further comprises the step of: determining a therapeutic dose of the lysate by skin testing.
- 57. (Previously Presented) The method according to Claim 56, wherein the step of administering the lysate to the individual comprises the step of: injecting the individual subcutaneously with the therapeutic dose of the lysate.
- 58. (Previously Presented) The method according to Claim 57, further comprising the step of: injecting the individual subcutaneously with at least one additional therapeutic dose of the lysate.
- 59. (Previously Presented) The method according to Claim 49, further comprising the steps of: measuring the clinical symptoms and signs of the individual before administering the lysate, and then measuring clinical symptoms and signs of the individual after administering the lysate.

- 60. (Currently Amended) A method for treating a chemically sensitive individual having an irregular cell cycle for T lymphocytes, the method comprising the steps of:
 - (a) collecting a blood sample from the individual by venipuncture in heparinized tubes;
 - (b) determining an initial status of the cell cycle for T lymphocytes;
 - (c) (b) isolating mixed T and B lymphocytes from the blood sample by:
 - separating the erythrocytes and neutrophils from the lymphocytes of the blood sample by a sodium diatrizoate and polysucrose density gradient technique to obtain a lymphocytic sample;
 - (ii) centrifuging the lymphocytic sample;
 - (iii) separating and combining the lymphocytic layers from the centrifuged lymphocytic sample; and
 - (iv) washing the combined lymphocytic layers to obtain the isolated mixed T and B lymphocytes;
 - (d) (e) propagating the isolated mixed T and B lymphocytes to obtain propagated lymphocytes by:
 - (i) culturing the isolated mixed T and B lymphocytes with a cell growth medium at about 37°C;
 - (ii) centrifuging the cultured lymphocytes;
 - (ii) removing the supernate from the centrifuged lymphocytes; and
 - (iv) washing the centrifuged lymphocytes in normal saline with further centrifugation to obtain the propagated lymphocytes;
 - (e) (d) lysing the propagated lymphocytes to obtain a lysate by:
 - (i) suspending the propagated lymphocytes in normal saline solution;
 - (ii) sonicating the suspended lymphocytes; and
 - (iii) filtering the sonicated lymphocytes to obtain the lysate; and (f) (e) administering the lysate to the individual by:
 - (i) determining a therapeutic dose of the lysate by skin testing; and
 - (ii) injecting the individual subcutaneously with the therapeutic dose of the lysate.

- 61. (Previously Presented) The method according to Claim 60, wherein the cell growth medium is supplemented with bovine calf serum.
- 62. (Previously Presented) The method according to Claim 60, wherein the culture is monitored until the yield is approximately $5-8 \times 10^6$ cells per ml.
- 63. (Previously Amended) The method according to Claim 60, wherein the step of administering the lysate to the individual further comprises the step of: injecting the individual subcutaneously with at least one additional therapeutic dose of the lysate.
- 64. (Previously Presented) The method according to Claim 60, further comprising the steps of: measuring the clinical symptoms and signs of the individual before administering the lysate, and then measuring clinical symptoms and signs of the individual after administering the lysate.
 - 65-66. (Canceled).
- 67. (New) A method according to Claim 49, wherein the step of determining the initial status of the cell cycle comprises the steps of: adding lysing buffer to a portion of the cell sample; adding DNA stain and RNAse to the portion of the cell sample; analyzing the portion of the DNA stained cell sample with flow cytometry to determine the DNA distribution in the cell cycle.
- 68. (New) A method according to Claim 67, wherein the step of analyzing the portion of the cell sample further comprises the step of: passing the DNA stained portion of the cell sample through a fluorescence spectrometer.
- 69. (New) A method according to Claim 49, wherein the step of determining the initial status of the cell cycle further comprises the step of: calculating the DNA distribution in the cell cycle by parametric analysis of the accumulated fluorescence data to produce a DNA histogram.